

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111
Serial Number: 10/009,036
Filing Date: September 30, 2002
Title: Cell Therapy for Chronic Stroke

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IN THE CLAIMS

Please amend the claims as follows:

Following is a complete set of claims with deletions shown with strike-throughs and additions shown by underlining:

1. (Presently Amended) A method of treating stroke in a human patient who has undergone a stroke at least three hours earlier, said method comprising delivering at least 2 million viable hNT neuronal cells to a plurality of at least one brain area sites involved in the stroke ~~whether hemorrhagic or ischemic.~~

2. (Previously Amended) The method of claim 1 further comprising the step of using a twist drill or a burr to provide entry through the skull through which the cells can be delivered into the brain.

3. (Canceled)

4. (Original) The method of claim 1 wherein the stroke has taken place at least three months earlier.

Claims 5-6 (canceled)

7. (Presently Amended) A method of improving speech in a person who has experienced brain damage due to a stroke which interferes with speech, said method comprising injecting a sterile composition of at least 2 million hNT ~~a sufficient number of~~ neuronal cells into a plurality of damaged brain area sites.

8. (Canceled)

9. (Canceled)

10. (Presently Amended) A method of improving motor performance in a person who has experienced brain damage due to a stroke which interferes with movement, said method comprising injecting a sterile composition of at least 2 million hNT ~~a sufficient number of~~ neuronal cells to a plurality of the damaged area sites of the brain.

11. (Canceled)

12. (Presently Amended) The method of claim 10, wherein the injected hNT neuronal cells

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- are a sterile composition of hNT human neuronal cells ~~or neural stem cells~~.
13. (Presently Amended) A method of improving cognition in a person who has experienced stroke-induced brain damage which interferes with cognition, said method comprising delivering a sterile composition of at least 2 million hNT ~~a sufficient number of neuronal cells or neural stem cells to the damaged area~~ into a plurality of sites of the brain.
14. (Presently Amended) A method of improving sensory function in a person who has experienced stroke-induced brain damage which interferes with sensation, said method comprising delivering a sterile composition of at least 2 million hNT ~~a sufficient number of neuronal cells or neural stem cells to the damaged area~~ a plurality of sites of the central nervous system or to the cerebral spinal fluid.
15. (Presently Amended) A method of improving sensory, motor or cognitive function in a person who has experienced brain damage due to a ~~hemorrhagic or thrombotic~~ stroke which interferes with those functions, said method comprising delivering a sterile composition of at least 2 million hNT ~~a sufficient number of neuronal cells or neural stem cells~~ into a plurality of locations ~~location~~ from which the hNT neuronal cells migrate to the damaged area.
16. (Previously Amended) The method of claim 14, comprising delivering the composition into the cisternae.
17. (Presently amended) A method of replacing ~~in an individual's~~ a human's nervous system nerves lost to a stroke ~~neurodegenerative disease, trauma, ischemia or poisoning~~, the method comprising administering to the ~~individual~~ human a sterile composition of at least 2 million hNT ~~a sufficient number of neuronal cells~~ to a plurality of sites in the brain.
18. (Canceled)
19. (Presently Amended) The method of claim 15 wherein the cells concomitantly administered with the ~~are selected from the group consisting of~~ hNT neuronal cells ~~are~~ neural stem cells, HCN-1 cells, fetal non-human mammalian cells, neural crest cells or a combination thereof.